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Class Specifications  
for the Class:

WELDER I

Duties Summary:

Performs skilled welding to fabricate and repair metal products using brazing and a variety of arc and gas welding equipment; and performs other related duties as assigned.

Distinguishing Characteristics:

This is the fully competent worker in the series

This class differs from the class Welder Helper in that the Welder I performs the skilled welding of metal components together to fabricate and repair products using brazing and a variety of arc and gas welding equipment as a regular and continuing assignment and may supervise one or more Welder Helpers or other helpers assisting in the work; whereas the Welder Helper performs duties which are essentially routine and repetitive, as well as manual and semi-skilled, in the welding of metal components together, and assists a Welder I in welding to fabricate and repair metal products.

This class differs from the class Welder II in that the Welder I performs skilled welding work independently in the fabrication and repair of metal products and may occasionally lead the work of other skilled welders but mainly confines supervision to welder helpers and other semi-skilled or unskilled workers; where the Welder II, in addition to performing skilled welding work as the major work assignment, supervises the work of skilled welders as a continuing work assignment including setting the pace and quality of workmanship.

Examples of Duties:

Lays out, marks, and welds light and heavy gauge metals; brazes; repairs broken, cracked, or leaking fixtures and equipment; fills holes and increases size of metal parts; forms and fixes metal parts and sub-assemblies; welds radiators, truck frames, tanks, automotive bodies, and fabricated metal parts; hard-faces special parts such as shovel bucket teeth, grader blades, and other parts requiring a high degree of hardness; inspects welds; assembles metal preparatory to welding, and positions and clamps component parts preparatory to welding; sets up and regulates oxyacetylene and electric welding and cutting equipment; maintains and makes minor repairs on welding equipment;

works from blueprints in the fabrication of special parts; estimates time and material needs; may assign tasks to other welders and supervise the work of helpers; and may perform work in other trades when not utilized as a welder.

Knowledge and Abilities Required:

Knowledge of: Practices and methods in the welding trade, including safety procedures; the tools, equipment and materials used in oxyacetylene and electric welding and brazing, including the composition and properties of ferrous and non-ferrous metals used in welding and brazing.

Ability to: Operate oxyacetylene and electric welding equipment, and use other hand and power tools common to the welding trade; weld all types of joints and do cutting; read and interpret blueprints and sketches; recognize hazards typical of the work; estimate time and materials to complete a job; understand and follow oral and written instructions; perform heavy lifting, moving and other manual work typical of the class.

Minimum Qualification Requirements:

Experience and Training: Four (4) years of work experience in the use and care of brazing, welding and related equipment used in the welding trade; or an equivalent combination of experience and training.

Physical and Medical Requirements:

Applicants must be physically able to perform, efficiently and effectively, the essential duties of the position which typically require the ability to read without strain printed material the size of typewritten characters, glasses permitted, and the ability to hear the conversational voice, with or without a hearing aid, or the ability to compensate satisfactorily. Handicaps in these or other areas will not automatically result in disqualification. Those applicants who demonstrate that they are capable of performing the essential functions of the position will not be disqualified under this section.

Any condition which would cause applicants to be a hazard to themselves or others is cause for disqualification.

Any disqualification under this section will be made only after a review of all pertinent information including the results of the medical examination, and requires the approval of the Director.

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This is an amendment to the class specification for the class WELDER I approved on May 28, 1958, and an amendment to the minimum qualification specification approved on February 26, 1969.

DATE APPROVED: 10/30/84

JAMES H. TAKUSHI  
Director of Personnel Services